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**OPTICAL FIBER AND OPTICAL AMPLIFIER**

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Inventor: FUJIMOTO YASUSHI; NAKATSUKA MASAHIRO

Applicant: JAPAN SCIENCE &amp; TECH CORP

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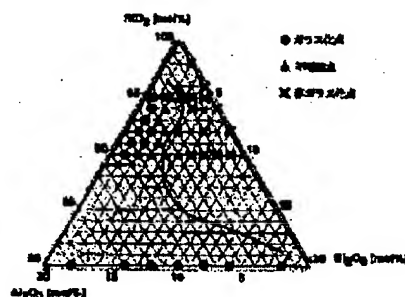
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Abstract of JP2002252397

**PROBLEM TO BE SOLVED:** To provide a highly efficient optical fiber and optical amplifier which are suitable for the amplification of a 1.3- $\mu$ m band.

**SOLUTION:** In the optical amplifier, the optical fiber which is made of Bi-doped silica glass expressed by  $x\text{Bi}_2\text{O}_3 - y\text{Al}_2\text{O}_3 - (1-x-y)\text{SiO}_2$  ( $x < y$ ) and containing  $\text{Bi}_2\text{O}_3$  in the amount of 0.1-10.0 mol% and  $\text{Al}_2\text{O}_3$  in the amount of 2-20 mol% and conducts light amplification of the 1.3  $\mu$ m band for semiconductor laser excitation of a 0.8  $\mu$ m band is used.



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